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			U.S. PATEN	T DOCUMENTS		
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		Num	ber-Kind Code ² (If known)			Figures Appear
				· iga.co / ippeui		
Then		US-	2002/0000195 A1	01-03-2002	Bang et al.	
		US-	4,557,950	12-10-1985	Foster et al.	
		US-	5,094,984	03-10-1992	Liu et al.	
		US-	5,656,556	08-12-1997	Yang	
		US-	6,030,445	02-29-2000	Gregg et al.	
		US-	6,091,121	07-18-2000	Oda	
		US-	6,099,647	08-08-2000	Yieh et al.	\
		US-	6,110,556	08-29-2000	Bang et al.	
		US-	6,117,244	09-12-2000	Bang et al.	i.
		US-	6,159,870	12-12-2000	Chakravarti et al.	
Them		US-	6,177,344 B1	01-23-2001	Xia et al.	
·		US-				·
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Examiner	Cite No.1	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns,	Т
Initials*	NO.	Country Code ³ Number ⁴ Kind Code ³ (if known)	Date MM-DD-YYYY	Applicant of Cited Document	Lines, Where Relevant Passages or Relevant Figures Appear	
THM		EP 0 843 348 A2 /	05-20-1998	Applied Materials, Inc.		

Examiner Signature Date Considered 3/16/04

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		KERN, WERNE	R, ET AL., Simultar	neous deposition and fusion flo	w planarization of		
Then		Elsevier-Seauo	icate giass in a new ia S.A. Lausanne (chemical vapor deposition rea CH, Vol. 206. No. 1/2. Decemb	actor, Thin Solid Films, er 10, 1991, pages 64,69		
100(71)		XP000355313,	ISSN: 0040-6090.	7 Vol. 200, 140. 172, Decemb	er 10, 1391, pages 04-09,		
			-				
		ROBLES, STU	ARDO, ET AL., Gap	Fill and Film Reflow Capability	of Subatmospheric		
Tam		Chemical Vapor	r Deposited Boroph I Society, Vol. 143	Osphosilicate Glass, Reprinted	from Journal Of The		
		Liconocitettica	1 000icty, Vol. 143, 1	10. 1, April 1990, @1990, pgs.	1414-1421. /		
	İ		•				
		XIA I -O ET A	Process Charact	eristics for Subatmospheric Cl	and Variable		
10		Borophosphosil	icate Glass and Effe	ect of Carrier Gas, Reprinted fr	nemical vapor Deposited om Journal Of The		
Tum		Electrochemical	Society, Vol. 144, I	No. 9, September 1997, © 199	7, pgs. 3208-3212. /		
		XIA, LQ., ET A	L., High Aspect Ra	tio Trench Filling Using Two-St	ep Subatmospheric		
		Chemical Vapor	Deposited Boropho	osphosilicate Glass for <0.18 µ	m Device Application,		
1644		5, May 1999, pa	aces 1884-1888. XP	iety, Manchester, New Hamps 001002961, ISSN: 0013-4651	hire, U.S.A., Vol. 146, No.		
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Them		Search Report for	or PCT/US 02/2260	8, mailed November 7, 2002, 4	pages.		
Tom		Search Report fo	or PCT/US 02/2352	0, mailed November 25, 2002,	5 pages.		
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Tom		5,994,209		Yieh et al.	11/30/1999	rippear	
		5,356,722		Nguyen et al.	10/18/1994		
THAM		6,121,164		Yieh et al.	9/19/2000		
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PTO/SB/08A (08-00) Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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			U	S. PATENT DOCUMENTS		
Examiner Initials	Cite No.1	U.S. Patent Document Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Figures Appear
Tita	Al	5,994,209		Yieh et al.	11/30/1999	,
	A2	5,356,722		Nguyen et al	10/18/1994	
Ton	A3	6,121,164		Yieh et al	10/19/2000	
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FOREIGN PATENT DOCUMENTS									
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